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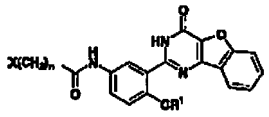
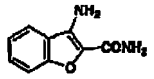
(54) BENZOFURO (3,2-D)PYRIMIDINE-4-ONE DERIVATIVE

(57) Abstract:

PURPOSE: To provide the derivative having a cyclic GMP-specific phosphodiesterase-inhibiting action, and useful for the therapy of hypertension, angina pectoris, cardiac infarction, cardiac failure, arterial sclerosis, asthma, bronchitis, atopic dermatitis, allergic rhinitis, etc.

CONSTITUTION: The derivative (salt) is expressed formula I (R^1 is 1-4C alkyl; n is 0-4; X is halogen, carboxyl, phenoxy, etc.), e.g. 3,4-dihydro-2-(2-ethoxy-5- nitrophenyl) benzofuro[3,2-d]pyrimidine-4-one. The derivative (X is halogen, phenoxy, morpholino) is obtained by reacting a compound of formula II with a compound of formula III in the presence of a base, treating the produced compound of formula IV with a base, reducing the produced compound of formula V, and subsequently reacting the product with an acid halide compound of formula, $ClCO(CH_2)_nX$ in the presence of a base.


I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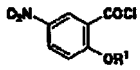
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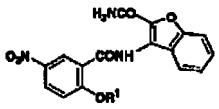
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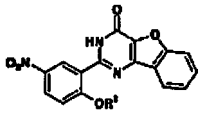
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